CITY OF PORTLAND

FORMER PROPERTY

CRAWFORD STREET (BRAND-S ACQUISITION)





__CITY OF PORTLAND______ ENVIRONMENTAL SERVICES

1120 SW 5th Avenue, Room 1000, Portland OR 97204-1972 (503) 823-7044 FAX (503) 823-6995

MEMORANDUM

Crawford Street Properties

TO:

Linda Scheffler

COPIES:

FROM:

John Hazlett

DATE:

10/5/06

Storm Connections

City Plumbing records show two connections to the city's stormwater conveyance system. Roof runoff from the Columbia Forge office building on the North Area's west end (along Burlington) discharges to the MS4 in N. Burlington. Roof runoff from the Columbia Forge operations building along N. Crawford discharges to the MS4 in N. Crawford. Additionally, the Lampros Steel building along N. Crawford (on the east side of the property next to the vacant area) has two connections to the MS4 in N. Crawford, as shown in the BES Mapping system (no plumbing records exist for this connection). All of the MS4 connections described above drain to City Outfall 52.

Additional Drainage Info

Historically, Source Control field inspections revealed some stormwater drainage from Crawford St. properties discharges onto the railroad tracks that separate the north and south areas and the neighboring WPCL property. Union Pacific has since raised the tracks along the Lampros Steel and WPCL properties, which may affect this issue.

A few years ago Lampros paved the NW corner of their property (closest to the river), which slopes down to the fence and drains to a WPCL swale. See 2/14/06 email correspondence from Cloudy Sears. This is consistent with the WPCL document depicting runoff coming onto the lab property from the Lampros property.

Catch basins in the Columbia Forge operations area convey runoff from the property and the upland corridor to a sand filter/planter at the southern end of the operations area. Planter overflow discharges to a city catch basin in Burlington that flows to City Outfall 52.

Finally, two private outfalls (WR-187 and 188) exist on the south area of the property, and it's unclear if Crawford Street properties are contributing to these.

Site History

In 1997, following a joint inspection by BES and DEQ to evaluate operational areas subject to NPDES permit coverage, ISW asked Columbia Forge to address cooling water discharge and fugitive oil products as well as install filters in the catch basins on their property.

PDX702.015.51.1

Bureau of Environmental Services RECEIVED

AUG 07 1992

1120 S.W. 5th Ave., Rm. 400 Portland, Oregon 97204-1972

Environmental Survey

SOURCE CONTROL MANAGEMENT
Wastewater Generating Characteristics

LEAVE BLANK City Use only LEAVE BLANK City Use only

	•	•	· · · · · · · · · · · · · · · · · · ·	Date Received:	· · · · · · · · · · · · · · · · · · ·
Please	complete in full, either type	ed or printed clearly.	VOT 1	Date Received:	
SECTION A1.C	A - GENERAL INFORMATION COMPANY NAME: COLUMBIA	FORGE +MACH. WKS	700	Pump tations:	
	ivision name:	•			
			At Walles address		
, AS, AC	idress of the facility: N. BAZ4 N. BAYLAN	CRAWFORD ST. D, OR 97203	A4. Mailing address	SAME	
N	epresentative completing this ame VINCE SCHILE		201 01 11	201	=1 E0:
	tie CED. MCA.	•	elephone <u>286-3621</u>	FAX	2438
A6. B	STEEL FORMIN	principal products and serv	rices:		
A7. I:	the building currently come no, have you applied for a s Estimated date of connec	ected to public sewer systems sewer connection?	. 	[X] Yes [
A8. St	andard Industrial Classificat	tion Number(s) (SIC Code if	known).	3462	
A9. Do	you or will you discharge of	.ls. grease, or fats to the	public sewer?	[] Yes [X1 No
	you use any of the following		•	·	
a. b.	Oil and water separator Oil and Grease trap Sand/sediment trap	• • • • • • • • • • • • • • •	. .	Yes I	X1 No
A11, Ho	w often do you clean the oil	and grease trap? Where do	you dispose of trapped oil	and grease?	
Al2. Do	you or will you have chemics you have any underground sto	ll storage containers, bins, orage tank(s)?	or ponds at your facility	? [X] Yes [No X1 No
Al3. Ha	ve you been issued a local, s yes, please list the type of	tate, or federal environment permit(s).	atal permit?	Yes [X1 No
Į£ co	you or will you have floor of you have chemical storage could an accidental spill lead	ontainers, bins, ponds, or into a discharge to an onsite	floor drains in a manufacture disposal system (e.g., the	ring or storage area rough	
To	floor drain)?			<u>[]</u> Yes [XI No ES
	ground?				
đi	you or will you discharge was sposal system?			[] Yes [X1 No
A16. Do	you or will you discharge wablic sewer system?	stewater (other than domest	cic waste from bathrooms, t	oilets, etc.) to the	Х 1 но
with a sys	under penalty of law that the stem designed to ensure that question or persons who manage the is, to the best of my knowled ting false information, incl	ualified personnel properly system, or those persons d age and belief, true, accura	gather and evaluate the infi irectly responsible for gat ite, and complete. I am awa	ormation submitted. hering the informati re that there are si	Based on my inquiry on, the information
Si	gnature* Muce Och	ule	Dew. Mgz.	Date _ 8-6	5-92
			_{A-1} <i>U</i>		Form 4-2

Environmental Survey Instructions Instructions for Completing Page Al

Section A -- General Information

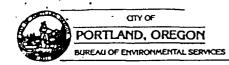
- Al. Enter the name or title of your business.
- A2. Enter the division name, if applicable.
- A3. Enter the address of the facility discharging to the City's sewer system.
- A4. Enter mailing address if different than A3.
- AS. Give the name of the person who is thoroughly familiar with the facts reported on this form and who can be contacted by the City staff.
- A6. Give a brief description of the facility. Include products or services.
- A8. Include all numbers that apply to business. Leave blank if not known.
- A13. Types of environmental permits to list include but are not limited to air, hazardous waste, NFDES for discharges to surface waters.
- A16. Process wastewater could be discharged through a direct connection to the City's collection system or through floor drains.

 *This form should be signed by a responsible corporate officer, a general partner, or by a duly authorized representative. See 40 CFR 403.12(1) for full definition.



A-2

Form 4-2 8/90



Environmental Survey

AUG 07 1992 SOURCE CONTROL MANAGEMENT

Company Name COLUMBIA FORGE & MACH WKS. INC. Facility Address 8424 N. CRANFORD ST. FORT. OR 97203

				
This facility generates or will generate the following ty			٠.	••
•	Average gallons			•
Domestic wastes (restrooms, employee showers, e	c, per day	per day	• .	
Estimate 35 gallons per day for each employee)				
[] Cooling water, noncontact			•	
Boiler/Tower blowdown	· · · · · · · · · · · · · · · · · · ·			
Description De			•	•
Equipment/Facility Washdown				
Air Pollution Control Unit				
Stormwater runoff to sewer	MKNOWN	MAKNOW	•	
Other (describe)			•	
[] Cleanup				
Total	•			
- -				
ime and Duration of Discharge:				
eanup Time:				
/ater supplied from: (Best estimate if not metered)				
City, Well, etc.)	•			
Vater Source(s) Water Acct No.	Water Quantities*		4	•
	nated Meter		•	
CITY D76031 031 M Oldo	<u> 200</u> 314	gal/day gal/day	•	
211111111111111111111111111111111111111		gai/day		
*1 ccf	= 748 gallons			·
Trace!	574			
Total		•		•
astes are discharged or may be discharged to: Avera	e galions Peak gailons			
	day per day			
Sanitary sewer	74 574	- /	•	•
Storm sewer Surface water	noun miknowy	y		
Groundwater (onsite disposal)		-		
Waste haulers	•	•		
Other (describe)		-	,	
	1)!!			•
Total	<u> 574</u>	-		
:	•			
tre the discharges batch []? continuous [X]?				0076424
, · · · · · · · · · · · · · · · · · · ·				COP/EPA 10

- B2. Provide the daily average and peak flows of waste generated in gallons per day for the last 12 months. The average flows can be calculated by dividing the total flows (of last 12 months) by the number of days that a discharge of water occurred (or operating day).
 - For estimating sanitary flows, use 35 gallons per each employee.

Include the day(s) of the week and duration (length of time) of discharge to the sewer system. Include day(s) of the week and approximate time for normal cleanup activities.

- B3. List the types of products, giving the common or brand name. Enter from your records the amounts produced daily for the previous calendar year and the process used.
- B4. Provide the water source(s) from which you get your water if there is more than one source, list each source. Provide the water account number. If the source is City water. To convert quantities from your water bill in CCF to gallons per day (gal/day), multiply CCF by 748.
- B5. Estimate wastewater discharge quantities.

Bureau of Environmental Services R6. Are any liquid wastes or sludges from this firm disposed of by means other than discharge to the sewer system? Yes [] No If "no," skip Items B7 and B8; If "yes," complete items B7 and B8. AUG 07 1992 37. These wastes may best be described as: SOURCE CONTROL MANAGEMENT Estimated gallons or pounds per year Item No. 1 Alkalies Heavy metal sludges Inks/dyes Oil and/or grease 500 BAL Organic compounds Paints Pesticides Plating wastes Pretreatment sludges Solvents/thinners 150 LBS . Other hazardous wastes (specify) [] Other wastes (specify) B8. For the above checked wastes, does your company practice: Onsite storage location STORAGE Offsite storage hauler's name address hauler's DEQ permit # phone number [] Onsite disposal Offsite disposal hauler's name SAFET SPENCER ENVIRONMENTAL SERVICE (OIL) 15770 SO, BEAVER WEN DR. ORECANCITY, OR EPA ID# ORD 980 836 415 (503) 655-0896 phone number (503) 655 Describe the method(s) of storage or disposal checked above.

> 0076426 COP/EPA 104(e)

Do you have an EPA or DEQ permit for storage or hauling? [] Yes M No If yes, attach a copy of the permit.

FOR RECLAMATION

- B6. Answer yes or no.
- B7. If the answer to B6 is yes, describe the types of wastes.
- B8. If the answer to B6 is no, describe your storage and disposal practices for these wastes. An onsite disposal system could be a septic system, lagoon, holding ponds (evaporative-type).
 - A batch discharge is one which results from the draining of storage tanks or process tanks; intermittent boiler blowdown, etc.



AUG 0.7 1992

B9.• List all principal materials regularly used in your facility that may be present in your wastewater discharge (such as cleaning agents, solvents, food processing waste, plating solutions, catalysts, milk wastes, ink, etc.). Identify chemical constituents, if known, or brand name required material safety data shorts.

	•	Amount	Discha	arged to	Spill P	otential	Chemical Constituents
Generic	Туре	Per Year	Storm	Sanitary	Storm	Sanitary	or Brand Name
Example: Deg	greaser	3 gallons			<u>x</u>		Trichloroethylene
•							
		·					
						<u> </u>	
							
						-	
		heir scientific	or com	mon and b	rand name	s and what o	quantities are being stored (use extra sheets if needed or attack
S-Scien	tific/C-Common			Brand N	lame		Lbs or Gallons
b. ARD c. KERI d. OIL	DSENE		UNIC	RON ON			300 BS 300 LBS 50 CAL 375 CAL
Do you ha	ve an accidental spill	prevention pr	ogram fo	REUD or the facil	ity? [] Yes	No E	SOO BAL Emergency response plan? [] Yes X No
. Characteri	istics of Wastewater.						
d. Solid o e. Priority		rials Yes[] Yes[] Yes[]	No X	Don't kno	() wc	es, complete	Attachment A.
recent lab	y wastewater analysis t data to this questionn ple(s) were taken (att	aire. Be sure	to inclu	ide the dat	ie of the ar	discharge(s nalysis, name) from your facilities in the last year. Attach a copy of the most of laboratory performing the analysis, and location(s) from

0076428 **COP/EPA 104(e)**

NONE

- B9. List all chemicals regularly used in your facility. Indicate where they may most likely enter into the City's sewer system or storm system or both.
- B10. Indicate if the Fire Bureau has been notified of your onsite storage practices.
- B11. Answer yes or no. If yes, attach plans.
- B12. Indicate the characteristics of the wastewater. Priority pollutants are listed in Attachment A. If your facility's discharge may include any priority pollutants. Attachment A must be completed.
- B13. If any laboratory analyses have been performed on wastewater discharged from your facility, a copy of the results must be attached.

B 14	wastewater o	ity uses processes in any of the industrial categories or business activities listed below and a or waste sludge, place a check beside the category or business activity (check all that apply) Il Categories	AUG 07 1992 SOURCE CONTROL
	EPA .		VILLE CELVICE
	Category	Catagori	AUG 0 7 1000
	Code 467 []	Category Aluminum forming	° 1 1992
	461 []	Battery manufacturing	SOURCECON
	434	· · · · · · · · · · · · · · · · · · ·	: CUNTROL MAN.
	465	Coil coating	SOURCE CONTROL MANAGEMENT
	468	Copper forming	~~~~
	469 []	Electric & electronic components	•
	413 []	Electroplating (If checked, please complete Attachment B)	
	415 []	Inorganic chemicals	
	420 []	Iron & steel	
	425 []	Leather tanning & finishing	
	433 []	Metal Finishing (If checked, please complete Attachment B)	
	464 []	Metal molding & casting (Foundries)	
	471 []	Nonferrous metals forming	
	421 []	Nonferrous metals manufacturing	
4	14 & 416 []	Organic chemicals, plastics, & synthetic fibers	· .
	455 []	Pesticides	
	419 []	Petroleum refining	
	439 []	Pharmaceuticals	
	463 []	Plastics processing	•
	466 []	Porcelain enamel	
4	30 & 431 []	Pulp, paper, and liberboard	
	428 []	Rubber	
	423 []	Steam electric	
	410 [] 429 []	Textile mills Timber products (wood preserving)	
	b. Other Bu	usiness Activity	•
	1.3	Adhesives	
	1 1	Analytical laboratories	
	11.	Auto laundries	•
		Beverage bottler	
	11	Can making	
	405 []	Dairy products	
	11	Dry Cleaners	
	457	Explosives manufacturing	•
	11	Food/edible products processor	
	ii	Gas stations	•
	454 []	Gum & wood chemicals	
	ii	Health services	·
	460	Hospital	
	ii	Laundries	
	ii	Machine shops	
	i i	Mechanical products	•
	440 []	Ore mining	
4	46 & 447 []	Paint & ink	
	459 []	Photographic supplies	
	ii	Printing & publishing	
	ii	Radiator Shops	
	ii	Slaughter/meat packing/rendering	
	417 []	Soaps & detergents	•
	[1]	Used oil reclaimers	
	· []	Waste recycler	•

B14. A facility who checks off activities listed under A are covered by the Environmental Protection Agency's (EPA) categorical pretreatment standards and the City's local pretreatment standards. These facilities are termed "categorical users." Businesses that check-off activities listed under B are terme "noncategorical users" and are covered by the City's local pretreatment standards. If you have any questions regarding how to categorize your busin, activity, contact the City for technical guidance.

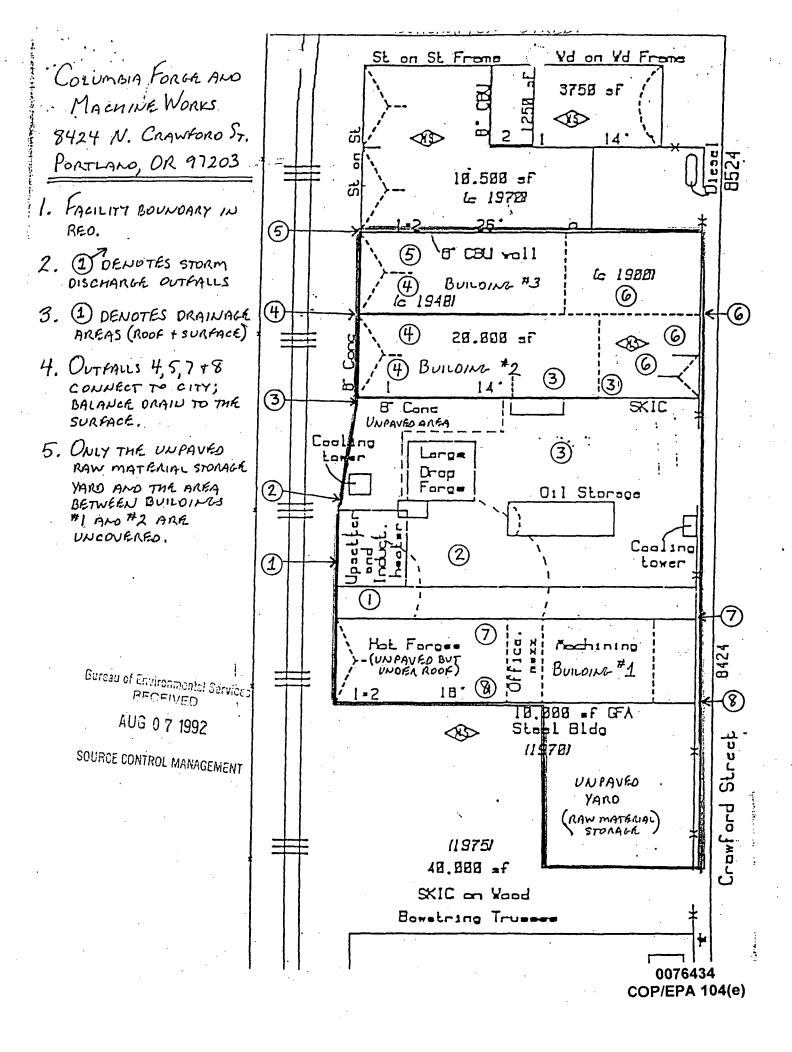
в 15.	Attach a sin	nple schematic drawing(s) of you	r facility, indicating: (Dra	awings should be	11 x 17, or sm	aller)	AUG	ECEIVED CON-19023	C
÷	b. Existing c. Current d. Current e. Location	n and size of all service outlets, presempling manholes or locations were or planned flow metering equipment or planned automatic sampling enterpretament processes, treat and name of pertinent streets	where samples may be col nent quipment	licated		SOL	^{JRCE CONTR}	0-7-1992; OL MANAGEMENT	
	h. Chemica i. Storm di	ematic to indicate process and							
B16.	Pretreatmen	t devices or processes used for ti	reating wastewater or sluc	ige (check as mai	ny as appropria	ite).			
	· [] [] · []	Air flotation Carbon filtration Centrifuge Chemical precipitation							
		Chlorination Cyclone Evaporation Filtration							
		Filtration, Multi-media Filtration, Rotary Filtration, Sand Flow equalization			··				
	[] [] []	Grease or oil separation, type Grease trap Grinding filter Grit removal Ion exchange							
		Neutralization. pH correction Ozonation Reverse osmosis							
	() ()	Screen Sedimentation Septic tank Solvent separation			, ·	•		• .	
	[] [] []	Spill protection Sump Biological treatment, type							
		Rainwater diversion or storage Other chemical treatment, type Other physical treatment, type Other, type	e						
B17.	[]	No pretreatment provided pretreatment required? [] Ye	≃ Mo []Don't know	v If yes, describ	e necessary pre	etreatment.			
B18.	Is industry it	n compliance with City industrial	pretreatment ordinance	? [] Yes [] No	M Don't Kno			· .	-
B19.	Is industry in	compliance with Federal Categ	orical standards? [] Yes	[] No M Don'	t Know				
	Are any pro-	cess changes or expansions plans a separate sheet to this form de	ed during the next three	years? [] Yes	No No	•			

B21. Please describe any previous spill events and remedial measures taken to prevent their reoccurrence:

B15. Attach a simple schematic drawing(s). Approved building plans may be substituted.

Example:

B5



BECEIVED

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B22	Comments:		<u> </u>		Attended	
			· .	3(OURCE CONTROL MANAGEMEN	 r
				,		-
			· · · · · · · · · · · · · · · · · · ·			
				•		
	***	•				
			· · · · · · · · · · · · · · · · · · ·			
ensur system accur	that qualified person a, or those persons of	nnel properly gather and rectly responsible for gat	all attachments were prepared under evaluate the information submitted. the hering the information, the information significant penalties for submitting false	Based on my inquiry of the per on submitted is, to the best of t	son or persons who manage the my knowledge and belief, true,	
	Signature*	Medile	Title Lew Mg	2. Date	8-6-92	
•This	form should be signed	d by a responsible corpor	rate officer, a general partner, or by a	duly authorized representative	e. See 40 CFR 403.12(1) for full	

definition.

B22. Place comments here.

Certification requirements are contained in 40 CFR 403.12(1). This form must be signed by a responsible corporate officer, a general partner, or d. authorized representative.

Return the completed form to:

Industrial Waste Division City of Portland Bureau of Environmental Services 1120 S.W. Fifth Avenue Portland, Oregon 97204-1972

Complete Attachments A and B as required.

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Please indicate by placing an "X" in the appropriate space by each listed chemical whether it is Suspected to be Absent, Known to be Absent, Suspected to be Present, or Known to be Present in your manufacturing or service activity or generated as a byproduct. Some compounds are known by other names. Please refer to the Priority Pollutant Synonym Listing for those compounds which have an asterisk (*).

liem No.	CASRN	Chemical Compound	Suspected Absent	Known Absent	Suspected Present :	Known Present
1	7664417	ammonia		. X	·	
2	1332214	asbestos (fibrous)	~	X		
3	57125	cyanide (total)		Х	·	
4	7440360	antimony (total)		X_		
5	7440382	arsenic (total)		X		:
6	7440417	beryllium (total)		X . "		
7	7440439	cadmium (total)		Х		
8	7440473	chromium (total)	:	Χ		
9	7440508	copper (total)		Χ		
10	7439921	lead (total)		χ	·	 .
11	7439976	mercury (total)	4	Χ.		
12	7440020	nickel (total)		X		
13	7782492	scienium (total)		Χ		
14	7440224	silver (total)		χ		
15	7440280	thallium (total)		X		
16	7440666	zinc (total)		X		
: 17	83329	acenaphthene		X		
18	208968	acenaphthylene		X .		
19	107028	acrolein		X		
20	107131	acrylonitrile		Χ		
21	309002	aldrin		<u> </u>		-
	120127	anthracene		<u> </u>		
23	71432	benzene		X	·	
24	92875	benzidine		X	<u> </u>	
25	56553	benzo(a)anthracene*	*	X		
26	50328	benzo(a)pyrene*		X		·
27	205992	benzo(b)fluoranthene		X		
28	191242	benzo(g,h,i)perylene*		λ		
29	207089	benzo(k)fluoranthene*		X		
30	319846	a-BHC(alpha)	<u> </u>	X		
31	319857	b-BHC(beta)		Y	·	
32	319868	d-BHC(delta)		X		
33	58899	g-BHC*(gamma)		X		
34	111444	bis(2-chloroethyl)ether*		Χ		
35	111911	bis(2-chloroethoxy)methane*		X		
36	108601	bis(2-chloroisopropyl)ether*		X		
37	542881	bis(chloromethyl)ether*		X		0070407

0076437 **COP/EPA 104(e)**

٦.

Attachment A (Continued)

Item No.	CASRN	Chemical Compound	Suspected Absent	Known Absent	Suspected Present	Known Present
38	117817	bis(2-ethylhexyl)phthalate*				
39	75274	bromodichloromethane*		χ		
40	75252	bromoform*		X		
41	74839	bromomethane*		X		
42	101553	4-bromophenylphenyl ether		· X		
43	85687	butylbenzyl phthalate		X		
44	56235	carbon tetrachloride*		X		
. 45	57749	chlordane .		Χ		
46		4-chloro-3-methylphenol*	·	X		
47	108907	chlorobenzene	••	λ	enter y A 1885	
48	75003	chloroethane*		X		
49	110758	2-chloroethylvinyl ether		Χ		
50	67663	chloroform*	·	X		
51	74813	chloromethane*		X		
52	91587	2-chloronaphthalene		X		
53	95578	2-chlorophenol*	·	X		
54	7005723	4-chlorophenylphenyl ether		Х		
55	218019	chrysene*		Χ		
56	72548	4,4'-DDD*		X		
57	72559	4.4'-DDE*		X		
58	50293	4,4'-DDT*		· X		
59	53703	dibenzo(a,h)anthracene*		X		
60	124481	dibromochloromethane*		X		
61	95501	1.2-dichlorobenzene*		X		
62	541731	1.3-dichlorobenzene*	',	Χ		
. 63	106467	1.4-dichlorobenzene*		Χ		
64	91941	3,3-dichlorobenzidine	-	Χ		
65	75718	dichlorodifluoromethane*		X		·
66	75343	1,1-dichloroethane*	1 - The second of the second o	X		
67	107062	1,2-dichloroethane*		X	· · · · · · · · · · · · · · · · · · ·	
68	75354	1,1-dichloroethene*		X	•	
69	111444	trans-1,2-dichloroethene*		X		
70	120832	2,4-dichlorophenol	i.	X	*	·
71	78875	1,2-dichloropropane*		X	`	
72	542756	(cis & trans)1,3-dichloropropene*	X The state of the	<u> </u>		<u> </u>
73	60571	dieldrin	, ,	X		
74	84662	diethyl phthalate*		\ X		
75	105679	2.4-dimethylphenol*		X		
76	131113	dimethyl phthalate		*		
77		di-n-butyl phthalate				
78		di-n-octyl phthalate*		X		
-	•		\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	·		

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Attachment A (Continued)

Item No.	CASRN	Chemical Compound	Suspected Absent	Known Absent	SOURCE CONTROL MANKAGUM ENT
79		1.6-dinitro-2-methylphenol*	•	Χ	
80	51285	2,4-dinitrophenol		X	
81	121142	2.4-dinitrotoluene	.	X	
82	606202	2,6-dinitrotoluene		X	
83	122667	1.2-diphenylhydrazine*		Χ	-
84	959988	endosulfan I*		X	
85	33213659	endosullan II°		X	•
86	1031078	endosolfan sulfate		Y Y	·
87	72208 ·	endrin		X	
. 88	7421934	endrin aldehyde		$\hat{\mathbf{x}}$	
89	100414	ethylbenzene		X	
90	206440	fluoranthene		X	
91	86737	fluorene*		Χ	
92	76448 .	heptachlor		Χ	
93	1024573	heptachlor epoxide		X	
. 94	118741	hexachlorobenzene*		X	
95	87683	hexachlorobutadiene		` X	
- 96	77474	hexachlorocyclopentadiene*		X	
97	67721	hexachloroethane*		X	
98	193395	indeno (1,2,3-cd)pyrene*		X	
99	78591	isophorone*		X	
100	74873	methylene chloride*		Χ	
101	91203	naphthalene	•	X	
102	98953	nitrobenzene		X	
103	88755	2-nitrophenol*		X	
104	100027	4-nitrophenol*		X	
105	62759	n-nitrosodimethylamine*		X	
106	621647	n-nitrosodipropylamine*		X	
107	86306	n-nitrosodiphenylamine*		X	
108	12674112	PCB-1016*		X	
109	11104282	PCB-1221*		X	·
110	11141165	PCB-1232*		X	
111	53469219	. PCB-1242*		X	
112	12672296	PCB-1248*		X	·
113	11097691	PCB-1254*		X	
114	11096825	PCB-1260*		X	
115	87865	pentachlorophenol	:	X	
116		phenanthrene		X	
117	108952	phenol		X	
118		pyrene	<u>.</u>	X	
119	1746016	2.3.7.8-tetrachlorodibenzo-p-dioxin*		Ĭ Ž	0076439 COP/EPA 104(e)

Attachment A (Continued)

No.	CASRN	Chemical Compound	Suspected Absent	Known Absent	Suspected Present	Known- Present
120	630206	1.1.2.2-tetrachloroethane*		Y		
121	127184	tetrachloroethene*		×		
122	108883	toluene*		X		
123	8001352	toxaphene		χ		
124	120821	1.2.4-trichlorobenzene		χ		
125	71556	1.1.1-trichloroethane*		χ		
126	79005	1.1.2-trichloroethane*		X		
127	79016 .	trichloroethene*		X		:
128	75694	trichlorofluoromethane*		Χ		
129	88062	2.4.6-trichlorophenol		X		
130	75014	vinyl chloride*		X		

2. For chemical compounds listed above that are indicated to be "Known Present," please list and provide the following data for each: (attach additional sheets if needed)

No.	Chemical Compound		Estimated Annual Usage (lb)		Loss or discharge to Sewers (lb/yr) Sanitary Storm	
		1.7				
						

AUG 1 0 1992

^	PECEIVED
• •	AUG 1 0 1992 GIVOF PORTLAND, OREGON Environmental Survey SOURCE CONTROL MANGEAMERICANK City Use Only 97
	BUREAU OF ENVIRONMENTAL SERVICES Wastewater Generating Characteristics Date Received: Treatment Plant:
•	e complete in full, either typed or printed clearly. Service Area: Pump Stations:
SECT	TON A - GENERAL INFORMATION
A1.	Company name: LAMPROS STEEL INC. Sewer Node:
A2.	Division name:
A3.	Address of the facility: 8524 N. CRAWFORD ST. PORTLAND, OR 9-7203
A5.	Representative completing this form: Name BRIAN TAMBLYN Title CONTROLLER Telephone 285-6667 FAX 289-7337
A6.	Brief description of business-principal products and services: WHOLESALE STEEL SALES
A7.	Is the building presently connected to public sewer system?
A8.	Standard Industrial Classification Number(s) (SIC Code if known).
A9.	Do you or will you discharge oits, grease, or fats to the public sewer?
A10.	Place a check for device used: a. Oil and water separator b. Grease trap C. Sand/sediment trap Yes No No Yes No
A11.	What is your normal frequency of cleaning the oil and grease trap? Where do you dispose of transaction oil and grease?
	Do you or will you have chemical storage containers, bins, or ponds at your facility? 500 gal above ground diesel fuel X Yes 1 No Do you have any underground storage tank(s).
A13.	Have you been issued a local, state, or federal environmental permit?
A14.	Do you or will you have floor drains in your manufacturing or storage area? If you have chemical storage containers, bins, or ponds, or floor drains in manufactoring or storage area, could an accidental spill lead to a discharge to an onsite disposal system (e.g., through a floor drain)? Public sewer? To storm drain? To ground? Ves No No To ground?
A15.	Do you or will you discharge wastewater (other than domestic waste from bathrooms, toilets, etc.) to an onsite disposal system? Yes M No or storm sewer?
A16.	Do you or will you discharge wastewater (other than domestic waste from bathrooms, toilets, etc.) to the public sewer system?
ensur system accur	ify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to e that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the n. or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, ate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for ing violations.
	Signature Track Date 8/5/92

Environmental Survey Instructions

Instructionsfor Completing page A1

Section A-General Information

- A1. Enter the name or title of your business.
- A2. Enter the Division Name, if applicable.
- A3. Enter the address of the facility discharging to the City's sewer system.
- A4. Enter mailing address if different than A3.
- A5. Give the name of the person who is thoroughly familiar with the facts reported on this form and who can be contacted by the City staff.
- A6. : Give a brief description of the facility. Include products or services.
- A8. Include all numbers that apply to business. Leave blank if not known.
- A13. Types of environmental permits to list include but are not limited to air, hazardous waste, NPDES for discharges to surface waters.
- A16. Process wastewater could be discharged via a direct connection to the City's collection system, or through floor drains.

This form should be signed by a responsible corporate officer, a general partner, or by a duly authorized representative. See 40 CFR 403.13(I) for full definition.



- B2. Provide the daily average and peak flows of waste generated in gallons per day for the last 12 months. The average flows can be calculated by dividing the total flows (of last 12 months) by the number of days that a discharge of water occurred (or operating day).
 - For estimating sanitary flows, use 35 gallons per each employee.

Include the day(s) of the week and duration (length of time) of discharge to the sewer system. Include day(s) of the week and approximate time for normal cleanup activities.

- B3. List the types of products, giving the common or brand name. Enter from your records the amounts produced daily for the previous calendar year and the process used.
- B4. Provide the water source(s) from which you get your water if there is more than one source, list each source. Provide the water account number. If the source is City water. To convert quantities from your water bill in CCF to gallons per day (gal/day), multiply CCF by 748.
- B5. Estimate wastewater discharge quantities.

Bureau of Environmental Sarvices

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SOURCE CONTROL MANAGEMENT



	TION B - DETAILED WASTEWATER INFORMATION Company Name LAMPROS STEEL INC. Facility Address S524 N. CRAWECRD PATLANO OR 97203
•	Please describe processes to be used in your facility that will result or may result in wastewater discharge to the public sewer system.
	This facility generates or will generate the following types of wastes (check all that apply): Average gallons Peak gallons
	per day per day
	Domestic wastes (restrooms, employee showers, etc., 420
	Estimate 35 gallons per day for each employee)
	[] Cooling water, noncontact
	[] Boiler/Tower blowdown
	[] Cooling water, contact
	[] Process
	Air Pollution Control Unit
	Stormwater runoff to sewer
	[Other (describe) wildomette
	[Cleanup river; we are
	located along
	Total (4 A20
•	Time and Duration of Discharge: bank of the river just south of the St. Johns bro
,	Cleanup Time: The runoff from our Steel vard just flows down
	the bank and into the river
1	Products Produced: (Attach additional sheets as necessary)
	Type Amount and Rate of Production Process
	No moduced
•	the frances however
٠	
٠	
•	
•	Water supplied from: (Best estimate if not metered)
	(City, Well, etc.)
	Water Source(s) Water Acct No. Water Quantities*
•	Estimated Meter
	Estimated Meter 420 gal/day billing is fo owners of gal/day the property
	b
•	E garway
	*1 ccf = 748 gallons
	Total
	Warner on discharged as a series of subserved as a few series of the ser
	Wastes are discharged or may be discharged to: Average gallons Peak gallons
	(check all that apply) per day per day
	M Sanitary sewer 420
	Storm sewer
	Surface water
	[] Groundwater (onsite disposal)
	Waste haulers
	Other (describe)
	Total 420
	10101
	0076444
	Are the discharges batch []? continuous [4]? COP/EPA 104

/ ·	If 'yes," complete items B7 and B8.		<i>A</i>	UG 1 9 1902
These wastes may best be described as:	Estimated gallons or pounds per year		SOURDE CC	OF ENVIRONMENTAL SE PENERVIEN UG 1 0 1992 INTROL MANAGEMEN
Item No.	y. •		•	NEWEN
[] Acids [] Alkalies - [] Heavy metal sludges [] Inks/dyes [] Oil and/or grease [] Organic compounds				
Paints Pesticides Plating wastes Pretreatment sludges Solvents/thinners		·		
[] Other hazardous wastes (specify)				
[] Other wastes (specify)	-			
For the above checked wastes, does your compa	ny practice:			
[] Onsite storage location				
[] Offsite storage hauler's name address hauler's DEQ permit # phone number		·		
[] Onsite disposal [] Offsite disposal hauler's name address hauler's DEQ permit #				
phone number				

- B6. Answer yes or no.
- B7. If the answer to B6 is yes, describe the types of wastes.
- B8. If the answer to B6 is no, describe your storage and disposal practices for these wastes. An onsite disposal system could be a septic system, lagoon, holding ponds (evaporative-type).
 - A batch discharge is one which results from the draining of storage tanks or process tanks; intermittent boiler blowdown, etc.

processing waste, plating solutions, catalysts, milk wastes, ink, etc.). Identify chemical constituents, if known, or brand name. Attach material safety data SOURCE CONTROL MANAGEMENT Spill Potential Discharged to Chemical Constituents Amount or Brand Name Generic Type Per Year Storm Sanitary Storm Sanitary a. Example: Degreaser 3 gallons Trichloroethylene . :-(Attach additional sheets if necessary) B10. Have you listed with the Fire Bureau the onsite storage of flammable or combustible liquids or solids, hazardous chemicals, or radioactive materials? MYO I INO FIRE DEPT INSPECTED FACILITY IN SPRING, 1992. If yes, list materials, if any, and their scientific or common and brand names and what quantities are being stored (use extra sheets if needed or attach a copy of Fire Bureau list). S-Scientific/C-Common Lbs or Gallons b. B11. Do you have an accidental spill prevention program for the facility? [] Yes 1/2 No Emergency response plan? [] Yes 1/2 No If yes, attach plans. B12. Characteristics of Wastewater. a. Temperature b. pH level Don't know [] Yes [] No [] Don't know [] c. Flammable or explosive materials d. Solid or viscous materials Yes [] No [] Don't know [] e. Priority pollutants Yes [] No [] Don't know [] If yes, complete Attachment A. (See Attachment A for the priority pollutants list.) B13. Attach any wastewater analysis that has been performed on the wastewater discharge(s) from your facilities in the last year. Attach a copy of the most recent lab data to this questionnaire. Be sure to include the date of the analysis, name of laboratory performing the analysis, and location(s) from which sample(s) were taken (attach sketches, plans, etc., as necessary).

B9. List all principal materials regularly used in your facility that may be present in your wastewater discharge (such as cleaning agents, solvents)

- B9. List all chemicals regularly used in your facility. Indicate where they may most likely enter into the City's sewer system or storm system or both.
- B10. Indicate if the Fire Bureau has been notified of your onsite storage practices.
- B11. Answer yes or no. If yes, attach plans.
- B12. Indicate the characteristics of the wastewater. Priority pollutants are listed in Attachment A. If your facility's discharge may include any priority pollutants. Attachment A must be completed.
- B13. If any laboratory analyses have been performed on wastewater discharged from your facility, a copy of the results must be attached.

B14. If your facility uses processes in any of the industrial categories or business activities listed below and any of these processes generate or cogenerate wastewater or waste sludge, place a check beside the category or business activity (check all that apply).

a. Indus	trial Catego	nies ,	$\sqrt{I_{i}}$	•		
EPA		₩.		\		
Categor	y	1	7/1	7		
Code	Cate	огу	- /	•		
467	Alun	inum form	ing/			•
461	Batte	ry manufa	cturing			
434		mining	•			
465] Coil	coating				
468		er forming	}			
469		ric & elect	ronic com	ponents		
413		roplating (If checked	i, please	complete A	ttachment B)
415		aniç chem	icals			
420		& steel				
425 [•	er tanning		-		•
433] Meta	Finishing	(If checke	ed, pleaso	complete.	Attachment B)
464) Meta	molding	& casting	(Foundri	ය).	
471	Nonf	errous met	als formin	ıg		
421] Nonf	errous met	als manuf	acturing		
414 & 416	Orga	nic chemic	als, plastic	s, & syni	hetic fibers	
455	Pesti	ides				
419	Petro	leum relin	ing			
439	Phar	naceuticals	;			
463	Plast	cs process	ing ·			
466	Porce	lain ename	el			
430 & 431	Pulp,	paper, and	l liberboa	rd		
428	Rubt	er				
423 [) Steam	electric				
410 {] Texti	e mills				
429 [] Timb	er product	s (wood p	reserving	3)	
. 0.1	n		,			•
b. Other	Business A	ctivity	N/N			
1) Adhe	cives	17	`		
		tical labor	alories			•
. [. ,	laundries	atorics			**
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	1 11/00	a familiae				

Other

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AUG 1 0 1992

SOURCE CONTROL MANAGEMENT

B14. A facility who checks off activities listed under A are covered by the Environmental Protection Agency's (EPA) categorical pretreatment standards and the City's local pretreatment standards. These facilities are termed "categorical users." Businesses that check-off activities listed under B are terme "noncategorical users" and are covered by the City's local pretreatment standards. If you have any questions regarding how to categorize your busin, activity, contact the City for technical guidance.

		00764 COP/EPA	
		·	
٠			
	NONE	·	
••	\		•
21.	Please describe any previous spill events and remedial measures taken to prevent their reoccurrence:	-	
20.	Are any process changes or expansions planned during the next three years? [] Yes [] No If yes, attach a separate sheet to this form describing the nature of planned changes or expansions.		
	N/Φ		
19.	Is industry in compliance with Federal Categorical standards? [] Yes [] No [] Don't Know		
	See ordinance.		
18.	Is industry in compliance with City industrial pretreatment ordinance? [] Yes [] No [] Don't Know		
- 1.	Is additional pretreatment required? [] Yes [] No [] Don't know If yes, describe necessary pretreatment.		
17		ent	
	[] Other, type [] No pretreatment provided		
	Other physical treatment, type		
	[] Rainwater diversion or storage [] Other chemical treatment, type		
	[] Biological treatment, type		
	[] Spill protection [] Sump		
	[] Solvent separation	•	
	[] Sedimentation [] Septic tank		
	[] Screen		
	Ozonation Reverse osmosis		
	[] Neutralization. pH correction		
	[] Grit removal [] Ion exchange		
	[] Grinding filter	•	
	[] Grease or oil separation, type		
	[] Flow equalization	•	
	[] Filtration, Rotary [] Filtration, Sand	·	
	[] Filtration, Multi-media		
	[] Evaporation [] Filtration	e .	
	[] Cyclone		
	[] Chemical precipitation		
	· [] Carbon filtration 19/14		
	[] Air flotation . N		
16.	Pretreatment devices or processes used for treating wastewater or sludge (check as many as appropriate).		
	h. Chemical storage location i. Storm drain location, if known	•	
	f. Location and name of pertinent streets g. Flow schematic to indicate process and process discharge in gpd	SOURCE CONTROL MANAGEM	ENT
	e. Location of pretreatment processes, treated flows, and untreated flows	CONTROL LANGE	
	c. Current or planned flow metering equipment d. Current or planned automatic sampling equipment	S01100-	•
;	b. Existing sampling manholes or locations where samples may be collected	AUG 1 0 1992	_
	a. Location and size of all service outlets, process drains, floor drains	HEUEINED !	Pervices.
315.	Attach a simple schematic drawing(s) of your facility, indicating: (Drawings should be 11 x 17, or smaller)	Allo a Marine de la correction de la cor	
		UU70371 - C -	

B15. Attach a simple schematic drawing(s). Approved building plans may be substituted.

Example:

B5

•				Gureau of France
B22. Comments:	11/71/12			Bureau of Environmental Sarvice
			·	AUG 10 1000
			SOL	JRCE CONTROL MANAGEMENT
				MANAGEMENT
		•		·
			•	
ensure that qualified system, or those pers	personnel property gather and e ons directly responsible for gath te. I am aware that there are si	evaluate the information submitted. It tering the information, the information	Based on my inquiry of the person submitted is, to the best of my information, including the pos	y knowledge and belief, true, sibility of fine and imprisonment for

B22. Place comments here.

Certification requirements are contained in 40 CFR 403.12(1). This form must be signed by a responsible corporate officer, a general partner, or d, authorized representative.

Return the completed form to:

Industrial Waste Division
City of Portland
Bureau of Environmental Services
1120 S.W. Fifth Avenue
Portland, Oregon 97204-1972

Complete Attachments A and B as required.

1120 SW Fifth Avenue, Room 1000, Portland, Oregon 97204-1912 • Sam Adams, Commissioner • Dean Marriott, Director

October 13, 2006

Mr. Tom Gainer Department of Environmental Quality 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987

Subject: Preliminary Source Control Evaluation Sampling and Analysis Plan, Crawford

Street Site, Portland, Oregon

Dear Mr. Gainer:

The City of Portland Bureau of Environmental Services (BES) has reviewed the Preliminary Source Control Evaluation Sampling and Analysis Plan, dated September 21, 2006, prepared by the Bridgewater Group, Inc. for the Crawford Street Corporation (CSC). This review was intended to assess whether the plan will provide an adequate evaluation of potential contaminant discharges to adjacent City stormwater collection systems (City Outfall Basins 50 and 52).

Research conducted during the development of our Water Pollution Control Laboratory (WPCL) Preliminary Assessment (GSI, 2006), included an evaluation of the potential historic and/or current discharges from the adjacent CSC site at 8424 N. Crawford Street. Specific comments and supplementary information are detailed below for DEQ consideration.

Site Stormwater Runoff Features

- 1. The plan does not define or display all stormwater drainage areas from the site. The "Site Storm Water Runoff Features" section and Figure 2 should be revised to reflect all piped and overland drainages, basins, and flow directions. Adjacent properties and operational areas identified in the plan also should be labeled on the figure, as well as existing outfalls believed to be inactive. Available plumbing records and drainage diagrams for this area are attached (Attachments 1 and 2). Section 3.3.3 of the WPCL Preliminary Assessment describes the City's understanding of the CSC site stormwater drainage, which includes overland discharges to the WPCL property.
- Piped discharges include roof drains connected to storm lines in City Outfall Basin 52 (on N. Crawford Street and N. Burlington Street) as well as roof drains discharging to the rail corridor. Roof surfaces at industrial sites have the potential to accumulate site contaminants and convey contaminants off site via stormwater runoff.
- 3. The site description identifies a west/east active railroad corridor owned by the City of Portland. The City of Portland granted the Oregon-Washington Railroad &

Mr. Tom Gainer October 13, 2006

Sincerely,

Linda Scheffler

Water Resources Program Manager

Superfund Program

Attachments: Attachment 1 - Plumbing Records

Attachment 2 - Columbia Forge Drainage Diagrams

Attachment 3 - Photo from WPCL

Attachment 4 - WPCL Drainage Diagram

cc: Tom Roick/DEQ

Kristine Koch/EPA

Dawn Sanders/ City of Portland Rick Applegate/City of Portland Michael Pronold/City of Portland

Bruce Brody-Heine/GSI

Attachment 1

BITY OF PORTLAND, CHECON DEPARTMENT OF PUBLIC WORKS SEWER BRANCH

Pint. No. 52445 Date 2/24/4819

Loration 6630 N. Burlington

Between At Crawford St.

Addition 5t. Johns

Lat 3,4,5,6 Blk 5

Applicant Rowland Plbg Co.

Remarks Br. con. Y in trunk Meas. OK 6 plpe.

inspired 2/24/47 19 By

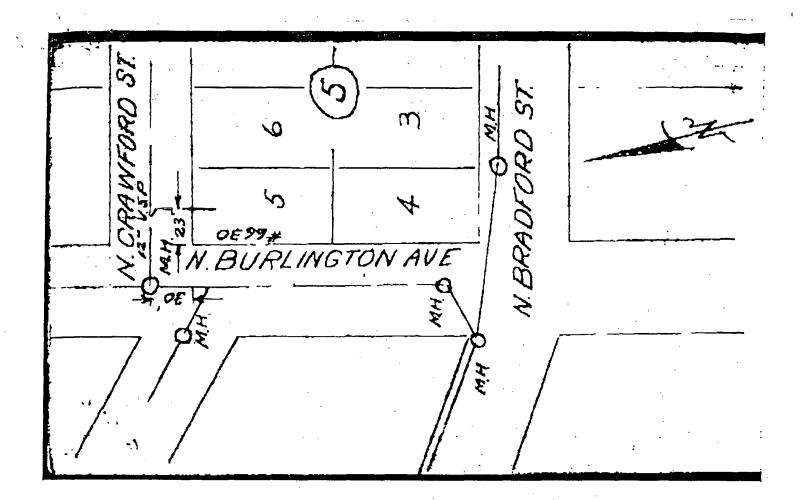
A. Hanson

Book 6

Page 491 New

Repair

Other House on Branch



2/2/ 5.E.

CITY OF PUBLIAND, OREGON DEPARTMENT OF PUBLIC WORKS BUREAU OF MAINTENANCE SEWER BRANCH

See also 79658
Pmt. No. 79658
Date July 26, 19 63

Between

Addition St. Johns Add.

Applicant Donohue & Fleskes

Curb. 85' north of manhole near N. Line of N. Bradford St.

7' deep at curb.

Inspected 7-30-63 19 By Grossi

Rouk 6 Page 49/ New Repair

MAN SOLUTION ST. JOHN'S

AND SOLUTION ST. JOHN

4 212

Pmt No 61206

Date 1/18

19 51

Location 8504 N. Crawford

Between N. Leavitt & N. Burlington

Addition James Johns 2nd

Lot 1 **1-8**

Blk. **5**

Applicant Emmert, J. H.

Remarks Br. Con. Trunk 6" pipe, Meas. 125' so. of so. 1. of Burlington

Inspected 2/23 19 51 By Walton

Buok 6

Page 490 New

Repair

Other House on Branch

N. Crawford ST.

48504

500

78

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72

78

70076463

COPIEPA 104(e)

N. Bradford ST.

MENT OF PUBLIC WORKS

91294 Pmt. No. 91293

2-3-72 Date

Location 8424 N. Crawford St.

Between

Addition Town of St Johns Lot 2,3,6,7 Applicant Rowland Plhg & Htg Waiver No - Yes - #

Remarks 4"CIP san to existing Y in MS 7 ft deep a 57 ft E of E.L. of Vac. Leavitt St. 3A

/6" CIP to Maint installed Y in MS 93' R of Manhole in N Leavitt Ave. 2 ft deep at curb SIORM ONLY SEVER × 91294

2-4-72 Inspected Brooks New 🗸 Book 6 Repair 10

Address 8424 No	rth Crawford Street	Permit 175971
	6 Add St	Johns
zskopkum Co.		and the second second second second second
Contractor Rowland	Plumbing	
Stories and class of build	Mary Commo C	chine bldg
Water Closets4		Cesspool
Bath, Shower	Auto, Clothes Washer	Septic Tank
Bath Tub	Auto. Dishwasher	Drý Well
Basins2	Draîn Floor2_	Water Service. 1
Sinks	Drain Area	Connect to Sewer2
Laundry Trays	Rain Drains6	Cesspool, Septic Tank
Water Permit 2028	33Bldg. Pmt467703.	Sewer Permi 91293-4
	WE1, Urinals 2.	
plan fee \$3.	1-13-77	Fine Unspection 8 75
Date of pirst inspection.		Inspector
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0076467 COP/EPA 104(e)

(5-59	REPORT OF PLUMBING INS	FECTION Date. 7-24-63
Address 8524 N	. Crawford	Permit 121421
LotBlk	Add.	
OwnerSkooku	m.Co., Inc.	
Contractor Donohu	e & Fleskes Corp.	
Stories and class of build	ling	lewone
Toilets	Floor Drains	Beer Cab.
à Bath Tubs	Rain Drains	Refr. Drains
Bath Showers	Fountains 1	Urinals
Rasins	H, W. Tanks	Catch Basins Yd-1
* Sinks	Cesspool	Water Service
Laundry Trays	Dry Wells	Conn. To
Water Permit	Bldg. Pmt	Sewer Permit
Remarks		
		The state of the s
Date of First Inspection	6-9-63 Date of	Final Inspection 4 27 63
Walt. Box	Mey Inspector	Inspector

Ex. office

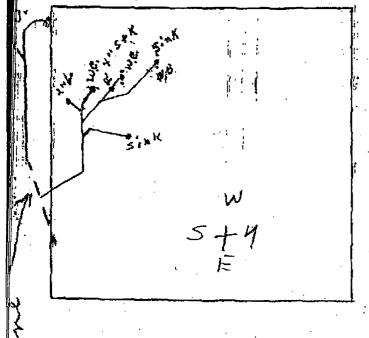
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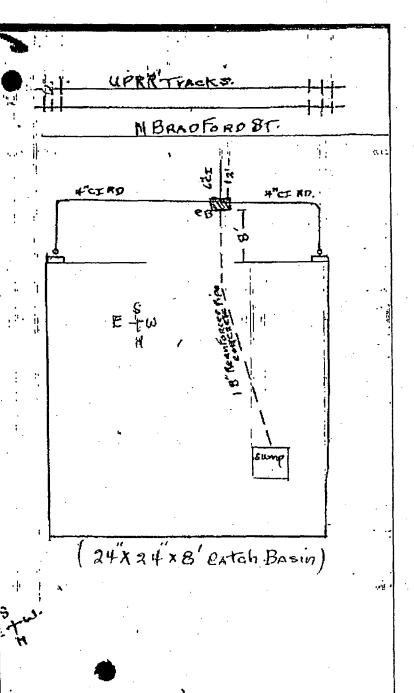
Address 8504	REPORT OF PLUMBING N. Crawford	INSPECTION Date	/26/5h h6597
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	Smookum Co. Emmert Bros.	• · · · · · · · · · · · · · · · · · · ·	•
	f building l-story		_ ~~~
	Floor Drains		
· ·	Rain Drains 1Fountains	<u>-</u>	1
	H. W. Tanks. 1.		
	Cesspool		
	Dry Wells Bldg, Pmt. 341		
Remarks	Didg, Fin	Sewer Permit	86748
		iliston.	
Date of First Inst	ection 2-12-5-54 Dat	e of Final Inspection by	Inspector

1-We.4" V + 0 ROOF 1-2) E2" + 0 4" V 2-W.B. 1-5 in K15" + 02" WCK d-10-54



CrewFord

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	Floor Drains		OF A DAY OF THE PARTY OF THE PA
Bath Tubs	Rain Drains	Refr. Drains	***************************************
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Basins	H. W. Tanks		· · · · · · · · · · · · · · · · · · ·
Sinks	Cesspool	Water Service	Transport Transport
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N. CRAWFORD ST.

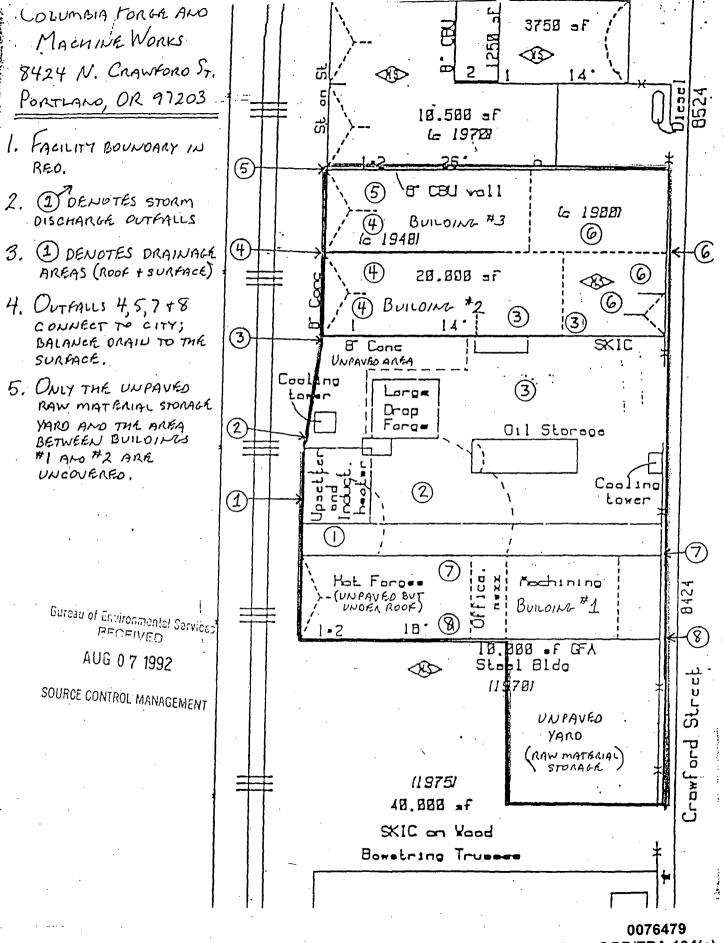
FORK W-89 (11-j.43),	BUREAU OF BUILDINGS REPORT OF PLUMBING INSP 3504 N. Crawford St.	Date 2/29/44 Permit 164426
	·	• • · · · · · · · · · · · · · · · · · ·
LotOwner	Skookum Company	
Contractor	vendart Hearing Co	manufacture of the contraction o
Stories and class	s of building. 1 story frame.	shop
\ Toilets Z	Floor Drains	Becr Cab
Bath Tubs	Rain Drains 1	Refr. Drains
	Fountains	
-	H. W. Tanks	
Sinks	•	Water Service
Laundry Trays.	Dry Wells	Connected to Sewer
Water Permits	157693 /	Sewer Permit 48385
Other Plumbing yard.	Fixtures One sewer conne	Sewer Permit 48385 ection to sewer in
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CRAWFORD ST. 0076475 COP/EPA 104(e)

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# Attachment 2

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# **Attachment 3**



Photo taken 1-25-02: Crawford Street Corp. -- pathway to cottonwood swale.jpg

# Attachment 4

# Figure 7

**Bureau of Environmental Services** 

WATER **POLLUTION** CONTROL LABORATORY

6543 N. Burlington Ave

**Existing Stormwater** Facilities and Impervious Areas

# Legend



Storm Pipe



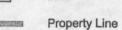


Infiltration Swale



Retention Pond





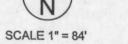


Culvert



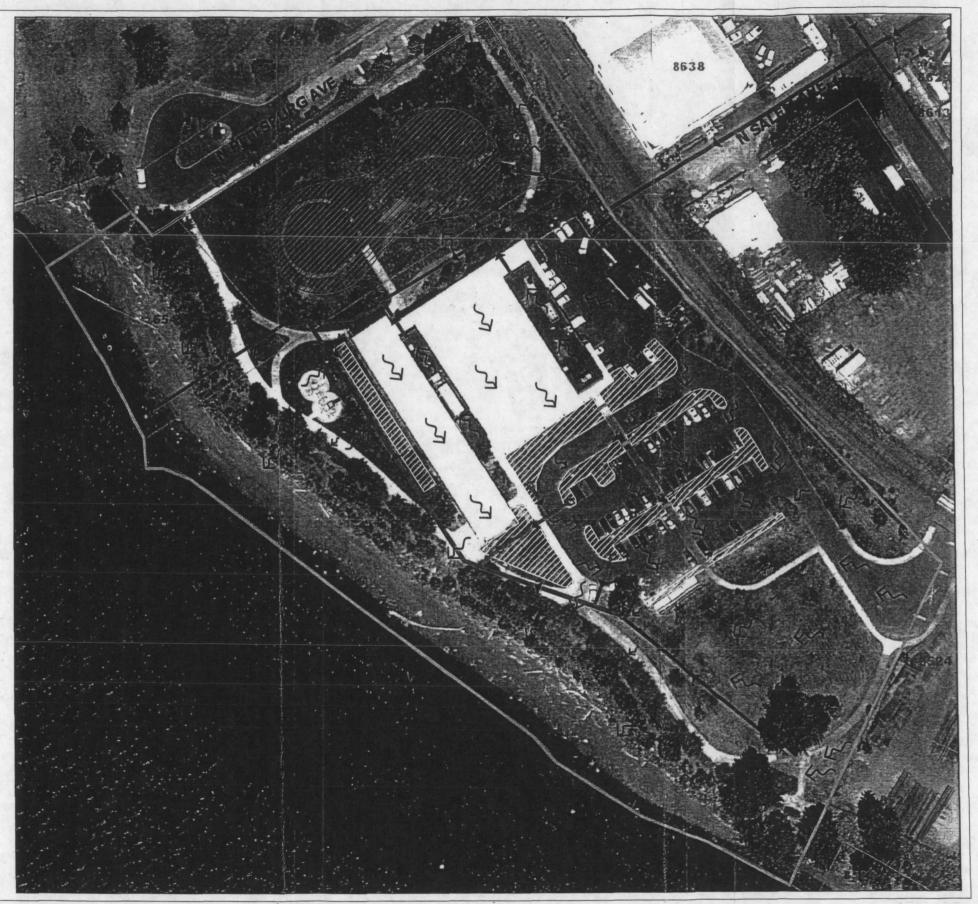
Direction of Surface Flow







ENVIRONMENTAL SERVICES
Date: 7/25/06 Created by: Casey Cunningham





# Department of Environmental Quality

Northwest Region Portland Office 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 (503) 229-5263 FAX (503) 229-6945 TTY (503) 229-5471

October 24, 2006

Also sent by e-mail

Matt Cusma Schnitzer Steel Industries P.O. Box 10047 Portland, Oregon 97296-0047

RE:

Storm Water Evaluation Plan Crawford Street Corporation Site 8424 and 8524 N. Crawford Street, Portland, Oregon

ECSI #2363

Dear Mr. Cusma:

The Department of Environmental Quality (DEQ) reviewed the September 21, 2006 Preliminary Source Control Evaluation, Sampling and Analysis Plan for the above-referenced site and has the following comments:

# Site Storm Water Runoff Features

- 1. Please provide a figure showing storm water drainage basins and including flow directions of all piped and overland storm water. It is difficult to determine whether the proposed two storm water sampling locations adequately evaluates storm water of potential concern. For example, off-site storm water run-on (show adjacent properties and operational areas), roof drain discharges to City of Portland conveyance pipes, overland flow off site to the southwest, abandoned pipe outfalls to the Willamette River, and other surface drainage points from the southern parcel to the Willamette River need to be shown as a basis for selecting sampling locations.
- 2. According to the 2006 *Preliminary Assessment* of the City of Portland Water Pollution Control Laboratory (WPCL) and conversations with City of Portland staff, overland storm water flows from the subject site into the WPCL storm water system and eventually discharges to the Willamette River at City Outfall #50. Therefore, overland flow off site to the southwest should be sampled, analyzed, and evaluated.
- 3. Roof drainage from buildings on the subject property should be evaluated since it can potentially convey site contaminants to the Willamette River.
- 4. Co-mingling of off-site storm water run-on is not justification to ignore evaluation of the receiving on-site storm water. Samples should be collected from the run-on and subject site run-off in that drainage basin to evaluate the contribution of on- and off-site sources. It is not clear if the central portion of the North Area is a potential drainage basin of concern or that all storm water in basins of potential concern flow through the sand filter box.



5. Current activities and use of the South Area are not clear.

## Storm Water Pathway Screening

- 6. Contaminants have been detected in surface soils throughout the site and the Joint Source Control Strategy (JSCS) specifies that catch basin solids should be collected to screen the site for potential site contaminants that may be present in storm water. For example, the 2001 Expanded Preliminary Assessment surface soil results in the vicinity of Columbia Forge and the railroad right-of-way showed levels of chromium, copper, nickel, zinc, polycyclic aromatic hydrocarbons (PAHs), and Total Petroleum Hydrocarbons (TPH) that exceed the Portland Harbor erodible soil and catch basin screening levels; however, it is not clear if such contaminants are migrating to the river via storm water. The DEQ requires evaluation of both liquid and solid contaminants that may be migrating to the Willamette River. Catch basin solids sampling from the Columbia Forge operations area will address these concerns and whether storm water best management practices or other source control measures are warranted.
- 7. The plan states that "The storm water samples will be collected in a manner that minimizes the suspended particles." As discussed above, evaluation includes both liquids and solids in storm water and no attempt to minimize (or filter) solids should be made during sampling.
- 8. The plan should address the JSCS requirements regarding storm criteria, number of sampling events (four), and that two of the four samples be first flush conditions.
- 9. The two proposed sample locations do not represent all storm water discharges from the site. Following delineation of site drainage basins, additional sampling locations should be proposed to represent roof runoff and overland discharges.
- 10. Grain size analysis and total organic carbon should be performed on catch basin solids in addition to site COIs. These parameters will help evaluate what type of sediment is accumulating in the catch basin and its potential to migrate past the catch basin towards the river.

Please incorporate changes to address these comments in a revised work plan and submit it within 30 days. Please call me at (503) 229-5326 if you have questions.

Sincerely,

Tom Gainer, P.E. Project Manager

Portland Harbor Section

cc: Ross Rieke, Bridgewater Group
Tom Roick, DEQ NWR
Linda Scheffler, BES

0076487 COP/EPA 104(e)



1120 SW Fifth Avenue, Room 1000, Portland, Oregon 97204-1912 • Sam Adams, Commissioner • Dean Marriott, Director

December 7, 2006

Mr. Tom Gainer
Department of Environmental Quality
2020 SW 4th Avenue, Suite 400
Portland, OR 97201-4987

Subject: Revised Preliminary Source Control Evaluation Sampling and Analysis Plan,

Crawford Street Site, Portland, Oregon

#### Dear Mr. Gainer:

The City of Portland Bureau of Environmental Services (BES) has reviewed the revised Preliminary Source Control Evaluation Sampling and Analysis Plan (Sampling Plan), dated November 22, 2006, prepared by the Bridgewater Group, Inc. for the Crawford Street Corporation (CSC). CSC submitted an initial Sampling Plan to the Oregon Department of Environmental Quality (DEQ) in September 2006. The City submitted comments on the initial plan to DEQ on October 13, 2006, following an evaluation of potential contaminant discharges to adjacent City stormwater conveyance systems discharging to Outfall Basins 50 and 52.

The City appreciates the efforts by DEQ and CSC to develop a revised sampling plan that facilitates a stormwater pathway evaluation consistent with the DEQ/EPA Portland Harbor Joint Source Control Strategy (JSCS). In support of this objective, the City offers the following two general comments.

- Selected sampling locations represent only four of the eight CSC site drainage basins
  identified with offsite stormwater discharges. According to City records, roof drains
  discharge to the City stormwater systems on N. Crawford Street and N. Burlington
  Ave. None of the locations represent runoff from the three basins composed entirely
  of roof drainage. Metals have been observed in roof drain runoff from industrial
  operations (e.g. Galvanizers Company) and metals have been detected in river
  sediment in the vicinity of the CSC site. Representative roof drain runoff should be
  screened as part of this evaluation.
- The stormwater pathway screening approach is inconsistent with the JSCS because it does not include sampling and analysis of catch basin or inline solids. The JSCS identifies the potential for piped stormwater or sheet flow discharges to suspend, transport, and redeposit solids through a site's stormwater system. Analysis of stormwater solids for site contaminants of interest (COIs) is needed for the weight-of-evidence evaluation of the site stormwater pathway. CSC COIs have been detected in site surface soil, as well as in the railroad right-of-way (ROW). A comparison of site catch basin and/or storm filter solids concentrations to

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An Equal Opportunity Employer. ■ For disability accommodation requests call 503-823-7740.

upgradient and site surface soil samples is needed for contaminant source identification and control.

Specific comments are presented below.

# Site Conditions and Storm Water Runoff Features

- 1. The Sampling Plan describes five drainage basins in the text, and also describes four areas with no discharge due to infiltration. Three separate roof drainage areas have been delineated, and have point discharges, but have not been assigned drainage basin status. The general site description should be revised to reflect that there are eight drainage basins on site, and should describe the operations within and adjacent to buildings in each roof drainage basin to ascertain their respective contaminant source potential.
- 2. Drainage Basin B: the description should be revised to reflect that stormwater flows to the southwest corner of the basin, rather than to the southeast.
- 3. Drainage Basin E: City plumbing records indicate that catch basins are connected to the City storm system on N. Crawford St. CSC should clarify this point of discharge (e.g. perform a dye test).
- 4. Roof Drains: City plumbing records indicate that roof drains are connected to City stormwater lines in N. Crawford St. and N. Burlington Ave., which discharge to the river via Outfall 52. The Sampling Plan does not clearly identify the flow direction of roof drain discharges or whether roof drains discharge to City stormwater or sanitary conveyances. Stormwater discharges to the sanitary sewer are prohibited by City code. CSC should review site records and if necessary, dye test or survey the adjacent conveyance systems to determine and accurately document all offsite discharge pathways.
- 5. Roof Drains: the statement that runoff from the building roofs is not representative of hazardous substances released from site operations is unsupported. In general, roofs have the potential to accumulate substances emitted during industrial operations. Specifically at the CSC Site, the Columbia Forge building's roof vents (visible in aerial photos) provide a pathway for releases to the roof and City employees at the adjacent Water Pollution Control Lab have observed significant mobilization of particulates up to the height of the roof from onsite traffic such as forklifts.

## Storm Water Pathway Screening

- 6. The proposed screening approach is inadequate because it includes only stormwater samples, from selected discharge areas, to assess potential contaminant contributions from the site to the Willamette River. If site catch basin or inline solids are not representative of site discharges, surface solids samples should be collected from each of the overland drainage stormwater sampling locations to ascertain whether surface soil contaminants are being transported off site via stormwater.
  - 7. The proposed screening of Drainage Basin A is inadequate. Drainage Basin A includes the Columbia Forge operations area; stormwater from this area is collected in catch basins and conveyed to a sand filter on site. During heavy rain, stormwater is discharged from the sand filter to the railroad ROW. A pollution complaint

upgradient and site surface soil samples is needed for contaminant source identification and control.

Specific comments are presented below.

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- 7. The proposed screening of Drainage Basin A is inadequate. Drainage Basin A includes the Columbia Forge operations area; stormwater from this area is collected in catch basins and conveyed to a sand filter on site. During heavy rain, stormwater is discharged from the sand filter to the railroad ROW. A pollution complaint

received by the City in 2004 (attached) and referred to the DEQ Duty Officer indicated that leaking PCB transformers may have been present at the Columbia Forge operations area. Prior to the railroad modification of the rail crossing on N. Burlington Ave., stormwater from the railroad ROW was observed to flow across N. Burlington Ave. to a catch basin connected to Outfall 52. To evaluate contributions to surface soil contamination in the railroad ROW, the City recommends sampling a catch basin in the Columbia Forge operations area and retaining the sand filter stormwater sampling point proposed in the previous Sampling Plan.

8. A sampling location should be added to screen current discharges to Outfall 52 as part of the stormwater pathway evaluation. City records indicate that runoff from a portion of the roofed areas onsite discharges to Outfall 52.

9. Stormwater sampling methodology is incomplete. The three proposed stormwater sampling locations represent overland discharges. Collecting representative samples of overland runoff can be challenging and therefore sample collection methodology should be presented to ensure that methods will meet sampling objectives. Additional recommended sampling locations – roof drain and sand filter discharges – will require different sampling techniques.

10. The Sampling Plan should present the target method detection limits for all site COIs.

11. The "first flush" conditions represent the first 30 minutes of observable stormwater runoff at a given sampling location, rather than the first 30 minutes of a rainfall event. Sample collection activities should be timed accordingly.

12. Figure 2 is incomplete and should be revised to include site conveyances (e.g. on-site piping and lateral connections, roof drains, and outfalls) and adjacent City stormwater and sanitary collection systems

Thank you for your consideration of these comments. Please contact me at 503-823-2296 if you have any questions or need additional information.

Sincerely,

Linda Scheffler

Water Resources Program Manager

Superfund Program

Attachment: Pollution Complaint

cc: Tom Roick/DEQ
Kristine Koch/EPA
Dawn Sanders/ City of Portland
Rick Applegate/City of Portland
Michael Pronold/City of Portland
Bruce Brody-Heine/GSI

0076492 COP/EPA 104(e)



**Department of Environmental Quality** 

Northwest Region Portland Office 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 (503) 229-5263 FAX (503) 229-6945 TTY (503) 229-5471

February 14, 2007

Also sent by e-mail

Matt Cusma Schnitzer Steel Industries P.O. Box 10047 Portland, Oregon 97296-0047

RE:

Revised Storm Water Evaluation Plan Crawford Street Corporation Site

8424 and 8524 N. Crawford Street, Portland, Oregon

ECSI #2363

Dear Mr. Cusma:

The Department of Environmental Quality (DEQ) reviewed the November 22, 2006 *Preliminary Source Control Evaluation, Sampling and Analysis Plan* for the above-referenced site. This revised document incorporated responses to DEQ's comments on the initial version of the plan dated September 21, 2006. Most of the responses to DEQ comments are adequate; however, some issues remain and the revision prompted additional comments.

### **General Comment**

The DEQ and the City of Portland are working jointly on evaluation of the storm water pathway in Portland Harbor. Comments on the Sampling and Analysis Plan were provided by the City of Portland and are attached for reference. DEQ does not expect all site stormwater catch basins and points of stormwater discharge to be sampled, but does require sampling to be representative of the site conditions including areas where stormwater impacts are most likely. Our comments below are focused on the issues of most concern. If the results of this work indicate that screening levels are exceeded, a more comprehensive sampling approach may be required.

# **Specific Comments**

Roof drainage from buildings on the subject property that discharge to the Willamette River by
storm water conveyance pipe or overland flow should be evaluated since it can potentially
convey site contaminants to the Willamette River. This potential pathway is being consistently
evaluated at upland Portland Harbor sites and in some instances has shown to be a significant
contaminant source, from the roofing materials and deposition of site contaminants on to the
roof.



- 2. Response to DEQ Comments 3 and 6. The City indicates that roof and parking lot discharges appear routed to the City storm sewer which discharges to Outfall 52 (i.e., there are no discharges to "sanitary" sewer as indicated in the response to comments and Sampling and Analysis Plan). Stormwater sampling must be conducted at a location that receives runoff from the three areas of roof drainage indicated in Figure 2.
- 3. Response to DEQ Comment 6. DEQ disagrees that sediment sampling from the Area E catch basins "would not be representative of storm water runoff from the Site given that no industrial operations are conducted in this small area." Sampling within Area E would appear to be representative of parking area runoff from the Site. In order to focus the investigation, DEQ is not requesting sampling of these catch basins at this time under the presumption that proposed sampling in other areas will be more representative of potential adverse impacts to stormwater.
- 4. The document implies that there is no overland flow from the South Area yard (i.e., drainage basins B and C, the central "3.6-acre infiltration area," and the "1.7-acre infiltration area" along the bluff) directly (i.e., perpendicularly) to the beach and the Willamette River. The DEQ understands that this conclusion was based on recent observations during a rain event; however, information from the site Preliminary Assessment (2/4/02) and Black Sand Removal activities (2/26/02) indicate possible storm water transport of upland black sand contamination to the adjacent beach. DEQ plans a site visit during a rain event to confirm that there is no overland flow directly to the river.
- 5. Sampling and Analysis Plan, Page 4. Response to DEQ Comment 6 indicates that catch basin sampling in the Columbia Forge operations area would not be representative, and little surface soil data has been collected at the site. To provide soil data representative of the potential storm water contribution to the Willamette River, surface soil should be sampled at proposed locations SW-1, SW-2, and SW-3. Samples should be analyzed for the site contaminants of interest, TOC, and grain size (Response to DEQ Comment 6 and 10). Analytical results should be compared to PEC screening level values in DEQ's *Joint Source Control Strategy*.

Please incorporate changes to address these comments in a revised work plan and submit it within 30 days. As stated previously, the DEQ requests that the storm water plan be implanted during the current wet season, so your assistance in expediting these revisions and implementing the plan would be appreciated.



Mr. Matt Cusma February 14, 2007 Page 3 of 3

Please call me at (503) 229-5326 if you have questions.

Sincerely

Tom Gainer, P.E. Project Manager Portland Harbor Section

Attachment 2- ...

4. Ross Rieke, Bridgewater Group Tom Roick, DEQ NWR Linda Scheffler, BES cc:

4500 SW Kruse Way, Suite 110 LAKE OSWEGO, OR 97035 TEL: (503) 675-5252 FAX: (503) 675-1960 rrieke@bridgeh2o.com

March 16, 2007

Mr. Tom Gainer Oregon Department of Environmental Quality 2020 SW Fourth Ave., Suite 400 Portland, OR 97201-4987

Subject:

Crawford Street Corporation Site Storm Water Evaluation Plan

Dear Mr. Gainer:

Enclosed please find three copies of our March 16, 2006, *Preliminary Source Control Evaluation, Storm Water Evaluation Plan* (Plan) for the Crawford Street Corporation (CSC) site in Portland, Oregon. The plan has been revised from the November 22, 2006 plan based on comments received from the Oregon Department of Environmental Quality (DEQ) in a February 14, 2007 letter from DEQ. The following presents our responses to the specific DEQ comments as incorporated into the revised plan.

# Response to DEQ's Comments .

For each comment response, DEQ's comment is first presented (in italics) with CSC's response following (indented and not italicized).

# **DEQ Comment 1**

Roof drainage from buildings on the subject property that discharge to the Willamette River by storm water conveyance pipe or overland flow should be evaluated since it can potentially convey site contaminants to the Willamette River. This potential pathway is being consistently evaluated at upland Portland Harbor sites and in some instances has shown to be a significant contaminant source, from the roofing materials and deposition of site contaminants on to the roof.

CSC is confused regarding DEQ's request for sampling of the roof drains. Roofing materials are ubiquitous surfaces common to all developed urban properties, as is asphalt pavement. It is not standard practice to sample asphalt pavement surfaces based on the fact that asphalt contains PAHs and, thus, runoff from such pavement contains PAHs. Given this, it is not clear why is DEQ asking parties to sample roof runoff based on the potential presence of hazardous substances in the roofing materials.

If DEQ is requesting roof runoff sampling to characterize surface deposition from onsite activities, it seems impacts from onsite activities would be better represented by sampling and analysis of runoff from the site ground surface (i.e. proposed

samples SW-1, SW-2, and SW-3). Given its elevation off the ground and exposure to greater wind impacts, it seems like depositions on the roof would be more representative of regional air deposition mechanisms, not representative of site-specific releases.

The unusual nature of DEQ's request to sample roof drains is also reflected in the lack of inclusion of roof drains as a possible source of contamination to the Willamette River in the December 2005 Portland Harbor Joint Source Control document. A search of that document does not yield a single entry pertaining to roof drains.

CSC is interested in understanding the basis for roof drain sampling that has been requested (performed?) at other Portland Harbor sites. Please provide a list of sites where such sampling has been requested (performed?).

### **DEQ Comment 2**

The City indicates that roof and parking lot discharges appear routed to the City storm sewer which discharges to Outfall 52 (i.e., there are no discharges to "sanitary" sewer as indicated in the response to comments and Sampling and Analysis Plan). Stormwater sampling must be conducted at a location that receives runoff from the three areas of roof drainage indicated in Figure 2.

See response to DEQ Comment 1.

### **DEQ Comment 3**

DEQ disagrees that sediment sampling from the Area E catch basins "would not be representative of storm water runoff from the Site given that no industrial operations are conducted in this small area." Sampling within Area E would appear to be representative of parking area runoff from the Site. In order to focus the investigation, DEQ is not requesting sampling of these catch basins at this time under the presumption that proposed sampling in other areas will be more representative of potential adverse impacts to stormwater.

No CSC response necessary.

### **DEQ Comment 4**

The document implies that there is no overland flow from the South Area yard (i.e., drainage basins B and C, the central "3.6-acre infiltration area," and the "1.7-acre infiltration area" along the bluff) directly (i.e., perpendicularly) to the beach and the Willamette River. The DEQ understands that this conclusion was based on recent observations during a rain event; however, information from the site Preliminary Assessment (2/4/02) and Black Sand Removal activities (2/26/02) indicate possible storm water transport of upland black sand contamination to the adjacent beach. DEQ plans a site visit during a rain event to confirm that there is no overland flow directly to the river.

Based on cursory observation of the southern edge of the site, it was previously inferred that storm water discharge occurred over the southern edge of the uplands, down the slope, and into the Willamette River. While the presence of black sand on the uplands and along the shoreline suggests that discharges may have occurred in

the past from the southern edge of the uplands, there has been no direct observation of such storm water discharges since work started on the site in 2000. The September 21, 2006 sampling plan proposed a sampling point at the, then inferred, low point along the southern edge of the uplands (SW-2). A pavement slab at this point appeared to be a likely discharge point off the southern edge of the site based solely on the fact that the point appeared to be low point along the southern edge of the uplands.

Very heavy rainfall in Fall 2006 provided an opportunity to directly observe storm water runoff characteristics at the site. Such storm water runoff conditions were observed by Mat Cusma of CSC and Ross Rieke of Bridgewater Group over the course of several hours on the morning November 7, 2006. Heavy rainfall occurred during the site visit and over 1-inch of rainfall had occurred in the eight hours prior to the site visit with over ½-inch occurring in the four hours preceding the site visit. The entire length of the southern edge of the uplands was carefully walked by Mr. Rieke and Mr. Cusma and observed for storm water discharge. Photographs of the southern edge of the uplands taken during the site visit are attached. No discharge from the southern edge of the uplands was observed, including from the pavement slab at the previous sample point SW-2 (see Photograph 4).

DEQ is welcome to visit the site to observe storm water flow characteristics. Please notify CSC when DEQ desires to visit the site so that the property tenant can be notified, proper health and safety protocols followed, and CSC representatives can accompany DEQ.

### **DEQ Comment 5**

Sampling and Analysis Plan, Page 4. Response to DEQ Comment 6 indicates that catch basin sampling in the Columbia Forge operations area would not be representative, and little surface soil data has been collected at the site. To provide soil data representative of the potential storm water contribution to the Willamette River, surface soil should be sampled at proposed locations SW-1, SW-2, and SW-3. Samples should be analyzed for the site contaminants of interest, TOC, and grain size (Response to DEQ Comment 6 and 10). Analytical results should be compared to PEC screening level values in DEQ's Joint Source Control Strategy.

Soil sampling along storm water flow pathways is considered a screening method to assess possible releases from the site via the storm water discharge pathway. The proposed sampling plan bypasses the indirect assessment provided by soil sampling and proposes direct sampling of the storm water itself. Notwithstanding the above, the sampling plan has been revised to include soil sampling at the three storm water sampling points (SW-1, SW-2, and SW-3).

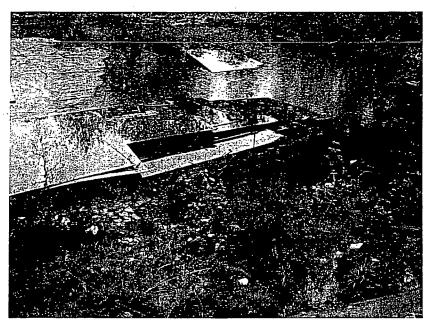


Photo No. 1 Photo Date: 11/7/06

Looking northeast at southeast corner of uplands. Berms preventing discharge to south.

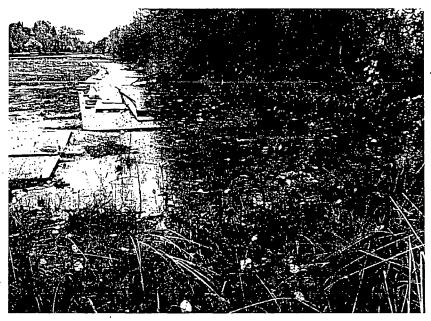


Photo No. 2 Photo Date: 11/7/06

Looking east from southwest corner of uplands. Berms prevent discharge to south. Storm water flow toward photographer.

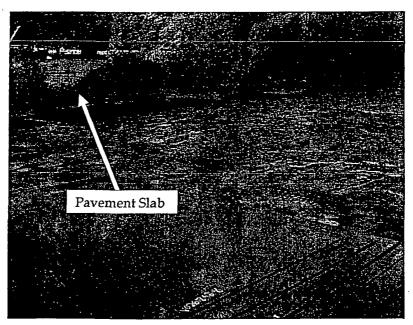


Photo No. 3

Photo Date: 11/7/06

Looking southwest at midpoint of southern edge of uplands. Pavement slab location of September 21, 2006 sampling plan sample point SW-2 (low point along southern edge of uplands).

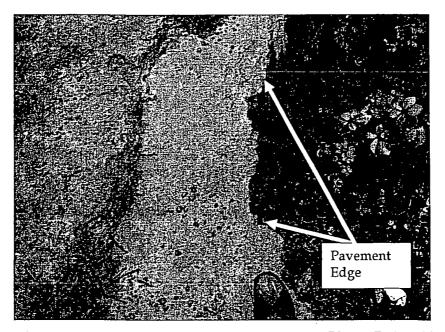


Photo No. 4

Photo Date: 11/7/06

Pavement section edge. No discharge occurring from pavement section.



Photo No. 5 Photo Date: 11/7/06

Looking east from site midpoint on southern edge of uplands.



Photo No. 6 Photo Date: 11/7/06

Looking west from site midpoint on southern edge of uplands.



Photo No. 7 Photo Date: 11/7/06

Looking north from site midpoint on southern edge of uplands.

# Scheffler, Linda

From:

GAINER Tom [GAINER.Tom@deq.state.or.us]

Sent:

Monday, March 26, 2007 10:18 AM

To:

Cusma, Matt; Ross Rieke

Cc:

GAINER Tom; ROICK Tom; Scheffler, Linda; TARNOW Karen E

Subject:

Stormwater

Importance: High

### Matt-

Thanks for submitting the March 16, 2007 stormwater Sampling and Analysis Plan (SAP) and the response to comments on the previous draft SAP. Although your responses to DEQ comments #1 and #2 concerning roof drains are inadequate, DEQ recommends immediate implementation of the March 16, 2007 SAP because it will address the primary stormwater concerns at the subject site and the current wet-weather season will likely end soon.

Stormwater roof drainage systems that discharge to the Willamette River are being sampled at other Portland Harbor sites, and site-related contaminants have been observed in such samples. The DEQ is interested in evaluating potential roof-top accumulation of site-related contaminants from site-related operations and not necessarily constituents related to the roofing materials. The DEQ considers a lack of such sampling of roof drainage as a data gap that may require further evaluation in the future.

Please contact me if you have questions, and to inform me of the sampling schedule.

Thanks-

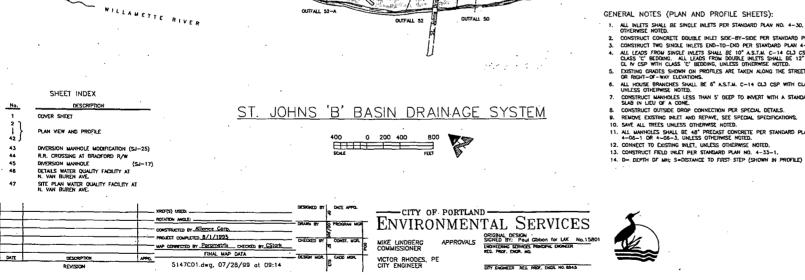
# Tom Gainer, P.E.

Project Manager/Environmental Engineer
Oregon Department of Environmental Quality, NW Region
503-229-5326



بروسيون 3. GL TO EBETTOL. ww.t. EXIX. Yewer. FORGE & MACHINE BUILDING FOR THE SKOOKUM CO. INC. 0076505 COP/EPA 104(e)

# PLOT AT 1=400, NO SCRIPT FILE NEEDED VICINITY MAP A LEGEND (THIS SHEET) LEGEND (PLAN AND PROFILE SHEETS) GENERAL NOTES (PLAN AND PROFILE SHEETS):



ST. JOHNS
'B' BASIN DRAINAGE SYSTEM

ST. JOHNS
SIN DRAINAGE SYSTEM

COMBINATION SEWER
SEPARATION PROJECT

1 or 47





